Assignment Day 15

Task 1:

Create a Scala application to find the GCD of two numbers

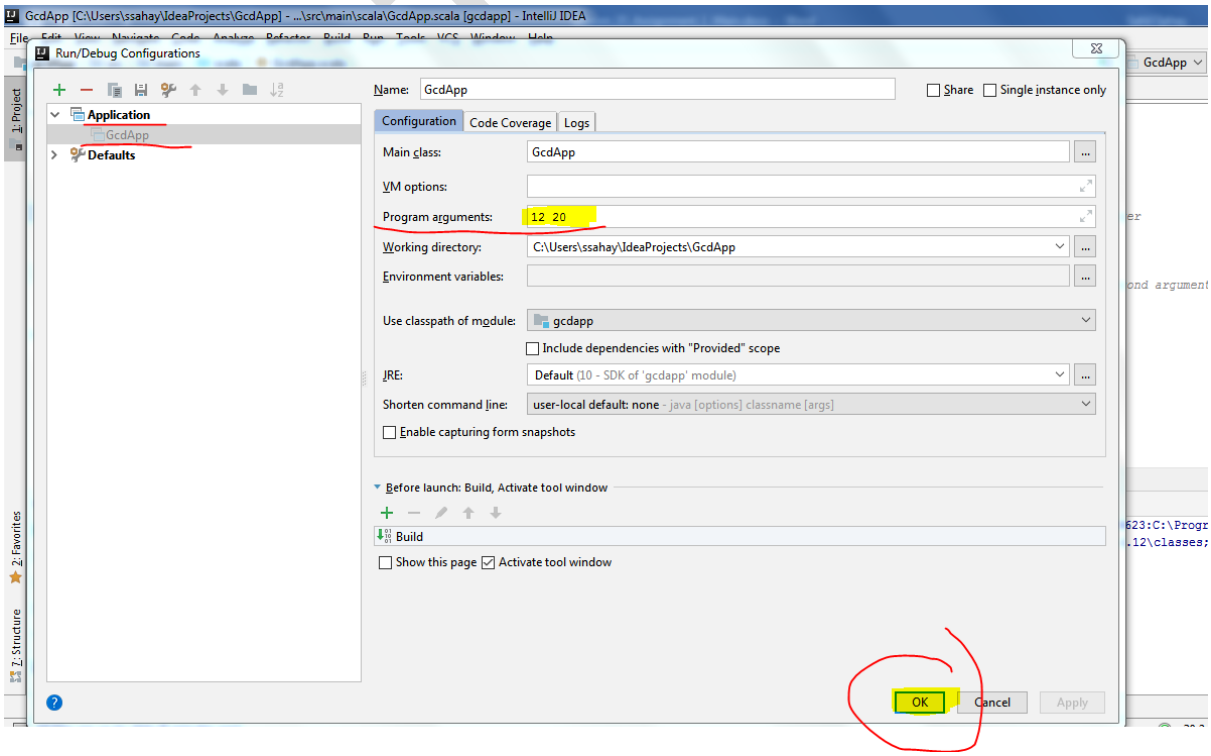
Ans:

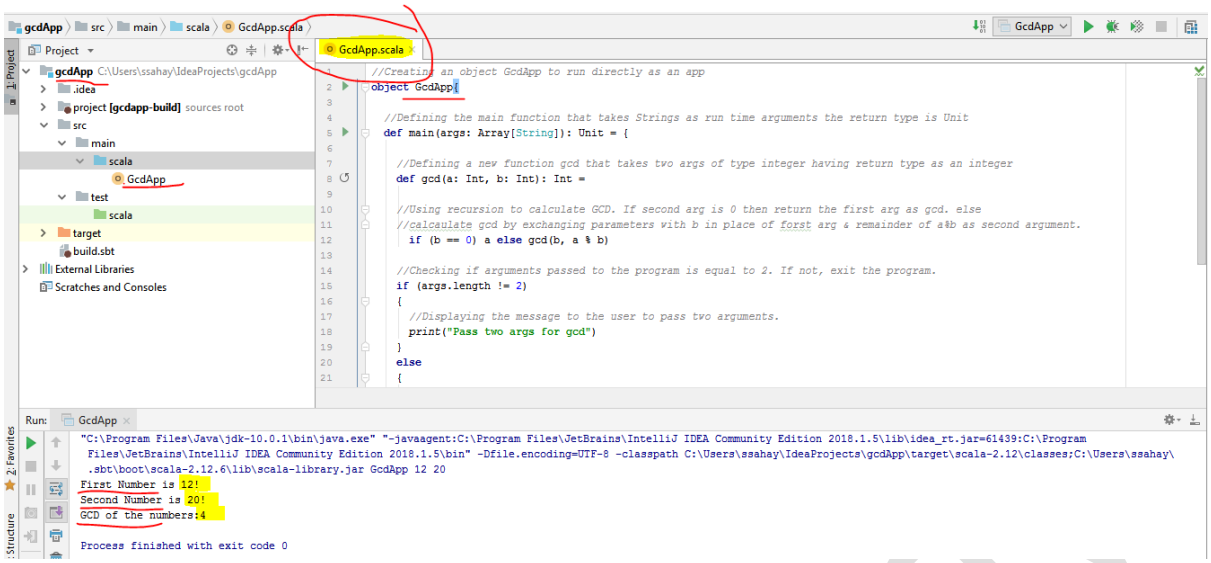
Note: Program files (attached separately) are properly documented with a detailed description of each instruction used within the program.

Program Set up:

Goto Run -> Edit Configurations -> under Application(GcdApp) -> Program arguments -> Pass the input arguments.

ScreenShot:





Task 2:

Fibonacci series (starting from 1) written in order without any spaces in between, thus producing a sequence of digits.

Write a Scala application to find the Nth digit in the sequence.

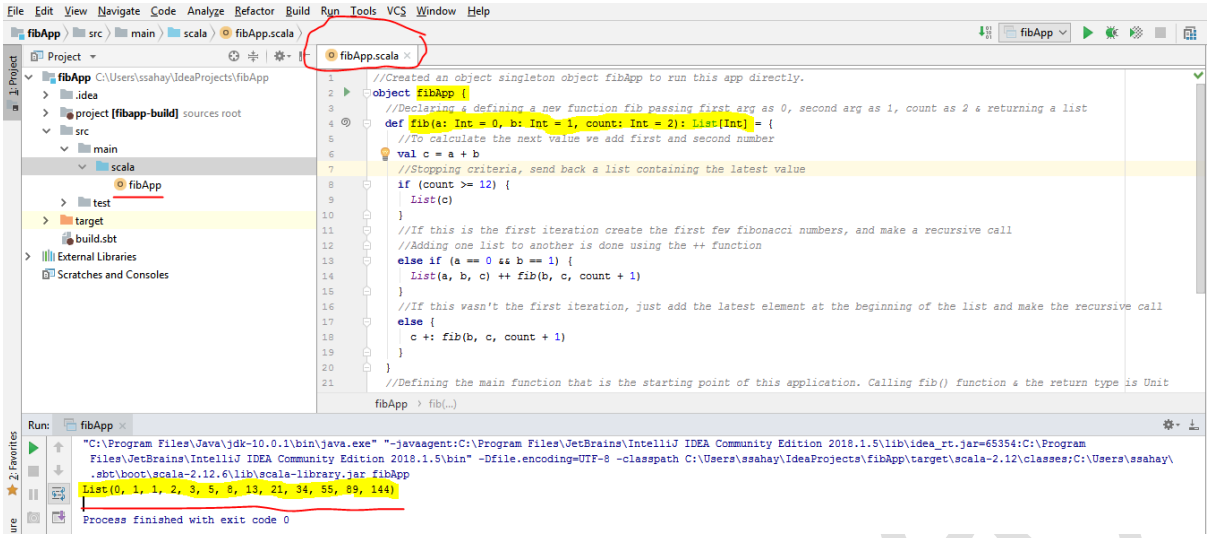
➢ Write the function using standard for loop.

➢ Write the function using recursion.

Ans:

Note: Program files (attached separately) are properly documented with a detailed description of each instruction used within the program.

ScreenShot:



Task 3

Find square root of number using Babylonian method.

1. Start with an arbitrary positive start value x (the closer to the root, the better).

2.Initialize y = 1.

3. Do following until desired approximation is achieved.

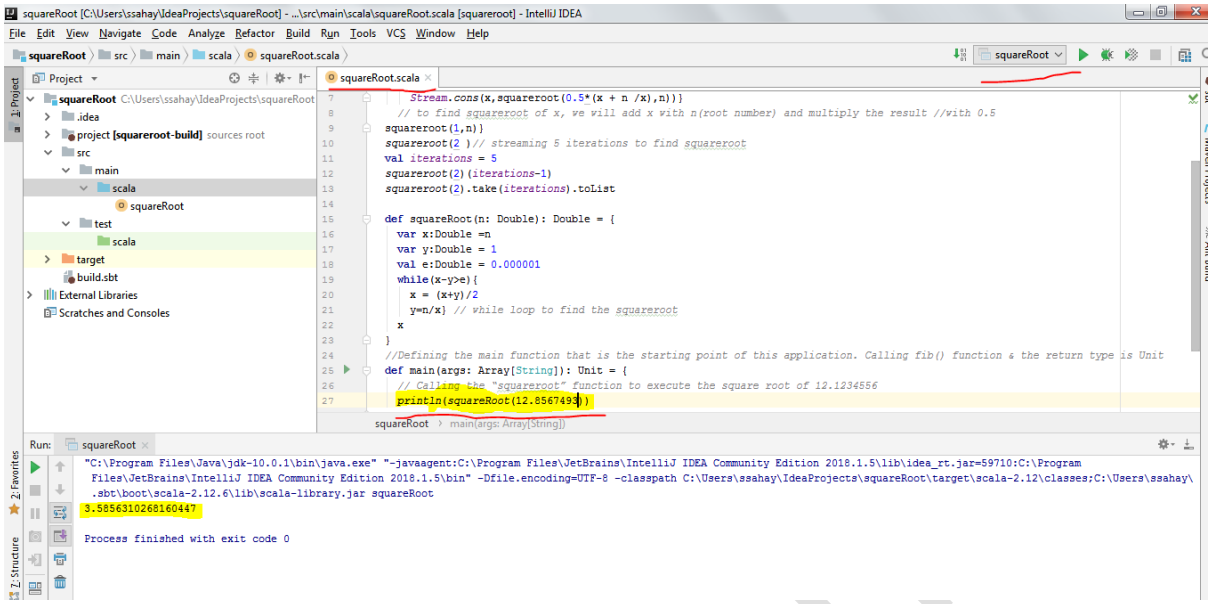
a) Get the next approximation for root using average of x and y

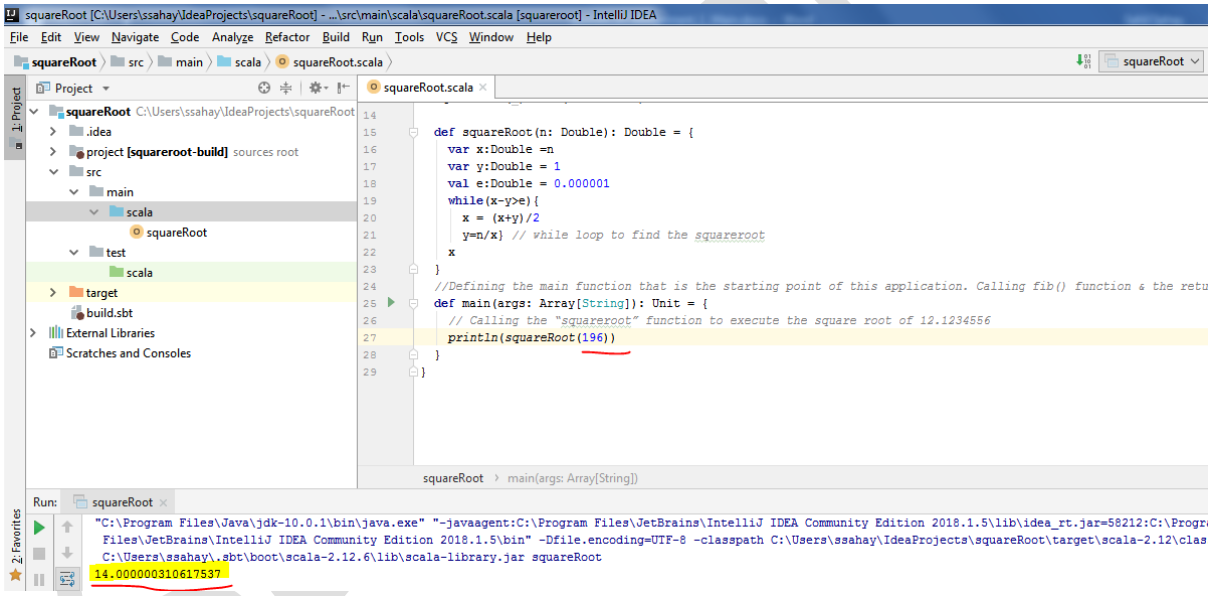
b) Set y = n/x

Ans:

Note: Program files (attached separately) are properly documented with a detailed description of each instruction used within the program.

ScreenShot:





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